Rev. 02.05.07 LPT25 Series 1 of 3

LPT25 Series

25 Watts

Total Power: 25 - 40 Watts Input Voltage: 85 - 264 VAC 120 - 300VDC

of Outputs: Triple



- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense on main output
- Terminal block option (-T)
- Built-in EMI filter
- Low output ripple
- Adjustable main output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available
- 2 year warranty

Safety

VDE 0805 EN60950

11774-3336-1241

(LC#84936)

UL UL60950

E132002

CSA CSA 22.2-234 Level 3

LR53982C

NEMKO EN 60950/EMKO-TUE

P95100411

(74-sec) 203

CB Certificate and report

1569, 1570, 1571, 1572

CE Mark (LVD)



Electrical Specifications

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Input range 85-264 VAC 120-300 VDC Frequency 47-440 Hz

Inrush current <15A peak @ 115VAC;

<30A peak @ 230VAC, cold start @ 25°C

Input current 1 A max. (RMS) @ 115 VAC Efficiency 70% typical at full load

EMI FCC Class B conducted; CISPR 22 Class B conducted

EN55022 Class B conducted; VDE 0878 PT3 Class B conducted <0.5 mA @ 50/60 Hz, 264 VAC input

Safety ground leakage current

Output

Maximum Power 25W for convection; 40W with 30CFW forced air

Cross regulation $\pm 2\%$ on output 1; $\pm 5\%$ on outputs 2, 3

Adjustment range -5, +10% minimum

Hold-up time 20 ms @ 25 W load, 115 VAC nominal line

Overload protection Short circuit protection on all outputs. Case overload pro-

tected @ 110% to 145% above peak rating

Overvoltage protection 5.7 to 6.7 VDC on the main output

Remote sense Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.





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Environmental Specifications

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree

from 50° to 70°C, -20°C start up.

Electromagnetic susceptibility:

Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3

Humidity: Operating; non-condensing 5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell

at four major resonances 0.75G peak 5 Hz to 500 Hz,

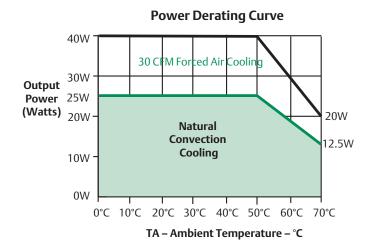
operational

Storage temperature: -40° to 85°C Temperature coefficient: ±.04% per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditions

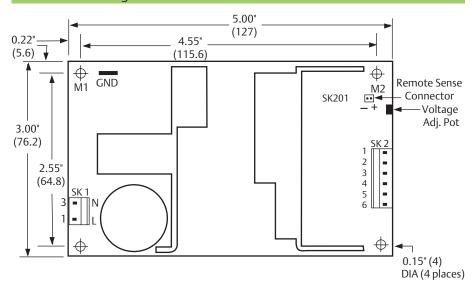
Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convnection cooling	Maximum Load with 30CFM Forced Air	Peak Load¹	Regulation ²	Ripple P/P (PARD) ³
LPT22(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
	12V	0.1A	1.5A	2A	3A	±5%	120mV
	-12V	0A	0.5A	0.7A	1A	±5%	120mV
LPT23(-T)	5V	0.4A	4A	5A	6A	±2%	50mV
	12V	0A	0.5A	0.7A	1A	±5%	120mV
	-12V	0A	0.5A	0.7A	1A	±5%	120mV
LPT24(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
	12V	0.1A	1.5A	2A	3A	±5%	120mV
	-5V	0A	0.5A	0.7A	1A	±5%	50mV
LPT25(-T)	5V	0.3A	3A	4A	5A	±2%	50mV
` '	15V	0.1A	1.5A	2A	2A	±5%	150mV
	-15V	0A	0.5A	0.7A	1A	±5%	150mV

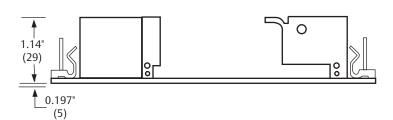
- 1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
- 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. Minimum Loads are required.
- 5. (-T) indicates Terminal Block option for input and output (instead of Molex type).



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Mechanical Drawing





6.

Warranty: 2 year 7. Weight: 0.5lbs/0.23kg

Pin Assignments							
Connector	LPT22	LPT23	LPT24	LPT25			
SK1-1	Line	Line	Line	Line			
SK1-3	Neutral	Neutral	Neutral	Neutral			
SK2-1	+12V	+12V	+12V	+15V			
SK2-2	+5 V	+5V	+5V	+5V			
SK2-3	+5 V	+5V	+5V	+5V			
SK2-4	Common	Common	Common	Common			
SK2-5	Common	Common	Common	Common			
SK2-6	-12V	-12V	-5V	-15V			
SK201-1	+Sense	+Sense	+Sense	+Sense			
SK201-2	-Sense	-Sense	-Sense	-Sense			

Mating Connectors AC Input: Molex 09-50-8031 (USA) Not required for (-T) option 09-91-0300 (UK) PINS: 08-52-0113 DC Outputs: Molex 09-50-8061 (USA) Not required for (-T) option 09-91-0600 (UK) PINS: 08-52-0113 Molex 22-01-2025 Remote PINS: 08-52-0123 Sense: Astec Connector Kit #70-841-006, includes all of the above Specifications subject to change without notice. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm) Mounting holes M1 and M2 should be grounded for

Specifications are for convection rating at factory settings at

Mounting hole M1 is safety ground connection.

115 VAC input, 25°C unless otherwise stated.

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